# MAPP Data Dictionary

#### January 2019

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<sup>\*</sup>Note: Printed Word version of the Data Dictionary excludes three columns from the Excel source file:

<sup>&</sup>quot;last pulled," "date of entry or last revision," and "Tableau Public" location.

# **Priority: Promote Healthy Eating and Active Living**

### 1. Adult Obesity Rates

Measure Description:	Measure Definition:
Percentage of adults that are	Percentage of the adult population (age 20 and older) that reports a
obese	body mass index (BMI) greater than or equal to 30 kg/m2.
Collection Plan, including	Gathered from County Health Rankings each year in order to get
update schedule:	county-level estimates. County Health Rankings 2018 was released
	March 14th, 2018.
Geography:	County
Notes:	VDH released data also has overweight data by health district.
Most recent release:	County Health Rankings 2018 used 2013-2015 data. CDC and County
	Health Rankings use middle year for three-year aggregations, so say
	it is 2014. It is standard to use end year so we label it as 2015 though
	it is the same data. Raw BRFSS (district-level only) has 2016 BRFSS
	data.
Data Source:	BRFSS
Source Description:	Behavioral Risk Factor Surveillance Survey - Virginia health district
	data and rates can be calculated using the Virginia Public Release
	data set. The VDH BRFSS coordinator also puts out estimates for
	health districts (currently in pdf version) on the VDH website. Certain
	rates have county-level estimates that are created by the CDC
	Diabetes Interactive Atlas (these are used by County Health Rankings
	where TJHD usually accesses the data).

# 2. Physical Inactivity

Measure Description:	Measure Definition:
Adults that are not active	Percentage of adults age 20 and over reporting no leisure-time physical activity. Examples of physical activities provided include running, calisthenics, golf, gardening, or walking for exercise. Previous two sentences are the County Health Rankings description. VDH BRFSS sites adds the BRFSS question, "During the past 30 days, did you participate in any physical activities other than your regular job?"
Collection Plan, including	Gathered from County Health Rankings each year in order to get
update schedule:	county level estimates. County Health Rankings 2018 was released March 14th, 2018.
Geography:	County
Notes:	District data can be obtain from the Virginia Public Release file
Most recent release:	County Health Rankings 2018 used 2014 data. Raw BRFSS (district level only) has 2016 BRFSS data.
Data Source:	BRFSS

Source Description:	Behavioral Risk Factor Surveillance Survey - Virginia health district
	data and rates can be calculated using the Virginia Public Release
	data set. The VDH BRFSS coordinator also puts out estimates for
	health districts (currently in pdf version) on the VDH website. Certain
	rates have county-level estimates that are created by the CDC
	Diabetes Interactive Atlas (these are used by County Health Rankings
	where TJHD usually accesses the data).

### 3. THRIV Obesity Rates

3. THRIV Obesity Rates		
Measure Description:	Measure Definition:	
Obesity and overweight rates	The paper includes BMI categories (underweight, normal weight,	
for UVA patients in our area	overweight, and obese) for Adults (20 years of age or older) and	
	children (2 years of age or older but less than 20 years of age)	
Collection Plan, including	N/A. One-time project.	
update schedule:		
Geography:	ZCTA (Zip Code Tabulation Area)	
Notes:	Data is in a PDF research paper. It includes methods, definitions,	
	tabulation tables, and maps.	
Most recent release:	Fall 2017 using complete 2014-2016 data	
Data Source:	THRIV	
Source Description:	Translational Health Research Institute of Virginia established a study	
	using UVA Clinical Data Repository Authored by Ben Lobo and TJHD	
	Health Director Denise Bonds. It used 2014, 2015, 2016 data to map	
	get BMI values by Zip Code Tabulation Areas (ZCTAs) for adults and	
	children in our health district.	

## 4. Access to Exercise Opportunities

Measure Description:	Measure Definition:
Percent of people that live	Access to Exercise Opportunities measures the percentage of
close to a park or gym	individuals in a county who live reasonably close to a location for physical activity. Locations for physical activity are defined as parks or recreational facilities. Parks include local, state, and national parks. Recreational facilities include businesses identified by the following Standard Industry Classification (SIC) codes and include a wide variety of facilities including gyms, community centers, YMCAs, dance studios and pools. Individuals who: reside in a census block within a half mile of a park or in urban census blocks: reside within one mile of a recreational facility or in rural census blocks: reside within three miles of a recreational facility are considered to have adequate access for opportunities for physical activity.
Collection Plan, including	Gathered from County Health Rankings each year in order to get
update schedule:	county level estimates. County Health Rankings 2018 was released
	March 14th, 2018.
Geography:	County

Notes:	This uses different files combined in ArcGIS to create the measure.
Notes.	
	The ArcGIS Business Analyst, for a fee (University of Wisconsin
	license), provides access to robust, integrated business intelligence,
	including corporate families, industries, key executives and financial
	data. The DeLorme Map Mart and ESRI public use GIS data provide
	geocoded, projected data on parks at the local, state and national
	level across the US. US Census Tigerline files are spatial extracts from
	the Census Bureau's MAF/TIGER database, containing features such
	as roads, railroads, rivers, as well as legal and statistical geographic
	areas.
Most recent release:	County Health Rankings 2017 used 2014 data and CHR 2018 used
	2016 data.
Data Source:	County Health Rankings
Source Description:	The County Health Rankings & Roadmaps program is a collaboration
	between the Robert Wood Johnson Foundation and the University of
	Wisconsin Population Health Institute. Annual rankings come out
	each year with a variety of data factors and data sources.
	http://www.countyhealthrankings.org/about-us

# 5. Adult and Child Food Insecurity

Measure Description:	Measure Definition:
Estimate of food insecure	The Current Population Survey (CPS) is a state and national level
adults and children	survey that has a module that includes questions on food security
	called the Food Security Supplement. Using questions that are
	included on both the CPS and American Community Survey (ACS),
	Feeding America created a model to estimate food security at the
	county level. The model include variables that have been shown (by
	the main author in different studies) to be correlated with food
	insecurity: unemployment rate, poverty rate, median income,
	percent Hispanic, percent black, percent homeowners, and a fixed
	year and fixed state effect.
Collection Plan, including	Feeding America releases the report each year using the latest ACS 5-
update schedule:	year estimates. Unsure of when each release is scheduled.
Geography:	County
Notes:	Results will be influenced by ACS data which includes a large number
	of college students in both Albemarle and Charlottesville.
Most recent release:	2018 Map the Meal Gap report using 2012-2016 ACS data
Data Source:	Map the Meal Gap
Source Description:	Report is produced yearly by Feeding America

## **Priority: Address Mental Health and Substance Use**

### 6. Serious Mental Illness Hospitalizations

Measure Description:	Measure Definition:
Mental health hospitalizations	Serious Mental Illness (SMI) Hospital Discharges Number. Currently
	use Community Health Solutions analysis of hospital discharge data
	from Virginia Health Information dataset. Data includes discharge for
	Virginia residents from Virginia community hospitals reporting to
	Virginia Health Information, Inc.
Collection Plan, including	Community Health Solutions provides data to Region Ten. Data lags
update schedule:	behind (e.g. 2017 release uses 2015 data).
Geography:	County
Notes:	Currently only have one year of data; will update with subsequent
	years when available.
Most recent release:	Behavioral Health Atlas 2017 using 2015 data should be available.
	Currently, TJHD only has 2013 data.
Data Source:	Virginia Health Information
Source Description:	Virginia Health Information (VHI) began its efforts in 1993 with
	passage of the Patient Level Database System Act. VHI n is the
	organization recognized as the source for health data reporting in
	Virginia. VHI works with private organizations and public bodies to
	use health data to meet the varied needs of the citizens of the
	Commonwealth.

## 7. Substance Use Disorder Hospitalizations

Measure Description:	Measure Definition:
Substance use	Substance Use Disorders (SUDS) Hospital Discharges Number.
hospitalizations	Currently use Community Health Solutions analysis of hospital
	discharge data from Virginia Health Information dataset. Data
	includes discharge for Virginia residents from Virginia community
	hospitals reporting to Virginia Health Information, Inc.
Collection Plan, including	Community Health Solutions provides data to Region Ten. Data lags
update schedule:	behind (e.g. 2017 release uses 2015 data).
Geography:	County
Notes:	Currently only have one year of data; will update with subsequent
	years when available.
Most recent release:	Behavioral Health Atlas 2017 using 2015 data should be available.
	Currently, TJHD only has 2013 data.
Data Source:	Virginia Health Information
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	passage of the Patient Level Database System Act. VHI n is the
	organization recognized as the source for health data reporting in
	Virginia. VHI works with private organizations and public bodies to
	use health data to meet the varied needs of the citizens of the
	Commonwealth.

#### 8. Suicide Rates

Measure Description:	Measure Definition:
Suicide rate per 100,000	Number of suicides per 100,000 population
population	
Collection Plan, including	OCME reports were collected for all available years to get rates.
update schedule:	Counts were taken for 2006-2016. Will update as OCME releases
	annual report.
Geography:	County
Notes:	Previous data source has been changed (VOIRS); now using OCME
	which reports county-level data.
Most recent release:	2016 complete year
Data Source:	VDH Office of the Chief Medical Examiner (OCME)
Source Description:	VDH OCME analyzes death data for the entire commonwealth. In
	their annual report, which appears to come out in the fall (but not
	consistently), they publish counts and rates of suicide data. Counts
	are included from 2006 to the year of the report; however rates are
	only for the year of the report.

# 9. Good Mental Health Days

Measure Description:	Measure Definition:
Mental well-being	TJHD uses the inverse from County Health Rankings. Poor Mental Health Days is based on survey responses to the question: "Thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good?" The value reported in the County Health Rankings is the average number of days a county's adult respondents report that their mental health was not good. The measure is age-adjusted to the 2000 US population. Measure calculation changed in 2016.
Collection Plan, including	Gathered from County Health Rankings each year in order to get
update schedule:	county level estimates. County Health Rankings 2018 was released
	March 14th, 2018.
Geography:	County
Notes:	Both self-reported health and healthy/unhealthy days have been
	widely used and studied for their validity. One study that
	investigated the reliability of the health-related quality of life
	(HRQoL) questions included in BRFSS found high retest reliability for
	the healthy days measures. (Jia H, Muennig P, Lubetkin EI, Gold MR.
	Predicting geographical variations in behavioural risk factors: An
	analysis of physical and mental healthy days. J Epidemiol Community
	Health. 2004;58:150-155.) Changes in the method CDC used to
	create this measure in 2016 and 2017 means that new estimates
	should not be compared with earlier years.
Most recent release:	County Health Rankings 2018 (2016 data)
Data Source:	BRFSS

Source Description:	Behavioral Risk Factor Surveillance Survey - Virginia health district
	data and rates can be calculated using the Virginia Public Release
	data set. The VDH BRFSS coordinator also puts out estimates for
	health districts (currently in pdf version) on the VDH website. County
	Health Rankings in 2016: "the CDC produced 2014 county estimates
	using single-year 2014 BRFSS data and a multilevel modeling
	approach based on respondent answers and their age, sex, and
	race/ethnicity, combined with county-level poverty, as well as
	county- and state-level contextual effects. To produce estimates for
	those counties where there were no or limited data, the modeling
	approach borrowed information from the entire BRFSS sample as
	well as Census Vintage 2014 population estimates. CDC used a
	parametric bootstrapping method to produce standard errors and
	confidence intervals for those point estimates. This estimation
	methodology was validated for all U.S. counties, including those with
	no or small (<50 respondents) samples." We are assuming the 2015
	data release did the same thing due to context on the County Health
	Rankings website.

## 10. Smoking Rates

Measure Description:	Measure Definition:
Percentage of adults that	Percentage of the adult population that currently smokes every day
smoke	or most days and has smoked at least 100 cigarettes in their lifetime
SHORE	of most days and has smoked at least 100 eigarettes in their metime
Collection Plan, including	Gathered from County Health Rankings each year in order to get
update schedule:	county level estimates. County Health Rankings 2018 was released
	March 14th, 2018.
Geography:	County
Notes:	Changes in the methodology used by the CDC to create this measure
	in 2016 and 2017 means that new estimates should not be compared
	with earlier years.
Most recent release:	County Health Rankings 2018 (2016 data)
Data Source:	BRFSS
Source Description:	Behavioral Risk Factor Surveillance Survey - Virginia health district
	data and rates can be calculated using the Virginia Public Release
	data set. The VDH BRFSS coordinator also puts out estimates for
	health districts (currently in pdf version) on the VDH website. County
	Health Rankings in 2016: "the CDC produced 2014 county estimates
	using single-year 2014 BRFSS data and a multilevel modeling
	approach based on respondent answers and their age, sex, and
	race/ethnicity, combined with county-level poverty, as well as
	county- and state-level contextual effects. To produce estimates for
	those counties where there were no or limited data, the modeling
	approach borrowed information from the entire BRFSS sample as
	well as Census Vintage 2014 population estimates. CDC used a
	parametric bootstrapping method to produce standard errors and
	confidence intervals for those point estimates. This estimation
	confidence intervals for those point estimates. This estimation

methodology was validated for all U.S. counties, including those with
no or small (<50 respondents) samples." We are assuming the 2015
data release did the same thing due to context on the County Health
Rankings website.

### **Priority: Reduce Health Disparities and Improve Access to Care**

### 11. ALICE Report - Asset Limited, Income Constrained, Employed

Measure Description:	Measure Definition:
A measure for the cost to live	The ALICE population represents individuals and families who earn
in a community at a basic	more than the official Federal Poverty Level but less than the basic
"survival" level and a	cost of living. The measure has estimates for housing, childcare,
"stability" level	food, transportation, healthcare, tax, and a miscellaneous category.
	There are estimates for different household and family compositions;
	there is an estimate for a basic "Survival" budget and a larger
	"Stability" budget.
Collection Plan, including	2017 was the first release. The measures were made from publicly
update schedule:	available data and could be updated independently using the United
	Way methodology. There appears to be an update and interactive
	dashboard planned for their website but the timeframe is unclear.
Geography:	County
Notes:	All methodology, county estimates, and data sources are listed in a
	report put out by the United Way and available on the ALICE Project
	website.
Most recent release:	2017 Report using 2015 data
Data Source:	United Way
Source Description:	450 United Ways from across 15 states participate in the ALICE
	Project that grew out a pilot in Morris County, New Jersey. To create
	the Virginia report, the ALICE Project team collaborated with a
	Research Advisory Committee composed of 13 representatives from
	across the state. Full report is online.

#### 12. Poverty Status of Families

Measure Description:	Measure Definition:
Percentage of families earning less than the Federal Poverty Limit	Poverty is defined using Federal Poverty Thresholds. A family is a group of two people or more (one of whom is the householder) related by birth, marriage, or adoption and residing together; all such people (including related subfamily members) are considered as members of one family. This can include information on families by number of people, number of children, and a few other metrics. Table S1702
Collection Plan, including update schedule:	ACS data is released as 5-year estimates in December (1-year supplements are available for areas with over 100,000 population which is only Albemarle county in our district)
Geography:	Census Tract

Notes:	Census Data, specifically ACS data, is used to create many of the other data sources utilized. ACS may have smaller than county estimates; however these estimates have confidence intervals that should be taken into consideration.
Most recent release:	2012-2016 5 year estimates
Data Source:	American Community Survey
Source Description:	Every year, the U.S. Census Bureau contacts over 3.5 million households across the country to participate in the American Community Survey (ACS). Participation is mandated by law because the ACS is part of the decennial census, replacing the "long form" that previously was sent to a percentage of households once every 10 years. Topics covered include demographics, ancestry, employment status, disability, educational attainment, family, health insurance coverage, vehicles available, and more.

# 13. Health Insurance Coverage

Measure Name:	Measure Definition:
Health Insurance Coverage	Selected Characteristics of Health Insurance Coverage, Table S2701.
Measure Description:	Can get by Age, Sex, and other characteristics. However, margin of
Percent of people that have	error makes this unlikely to be useful except for potentially county
health insurance coverage	level.
Collection Plan, including	ACS data is released as 5-year estimates in December (1-year
update schedule:	supplements are available for areas with over 100,000 population
	which is only Albemarle county in our district)
Geography:	Census Tract
Notes:	Census Data, specifically ACS data, is used to create many of the
	other data sources utilized. ACS may have smaller than county
	estimates; however these estimates have confidence intervals that
	should be taken into consideration.
Most recent release:	2012-2016 5 year estimates
Data Source:	American Community Survey
Source Description:	Every year, the U.S. Census Bureau contacts over 3.5 million
	households across the country to participate in the American
	Community Survey (ACS). Participation is mandated by law because
	the ACS is part of the decennial census, replacing the "long form"
	that previously was sent to a percentage of households once every
	10 years. Topics covered include demographics, ancestry,
	employment status, disability, educational attainment, family, health
	insurance coverage, vehicles available, and more.

## 14. Low Birth Weight and Very Low Birth Weight

Measure Description:	Measure Definition:
Babies born underweight	Low Birth Weight is a baby born weighing less than 2,500 grams.
	Very Low Weight is a baby born weighing less than 1,500 grams.

Collection Plan, including	The Division of Health Statistics maintains data on births,
update schedule:	pregnancies, and induced terminations. They will update this data
	periodically as it is finalized. It is available as a PDF from their site
	and can then be turned into a data table using Tableau.
Geography:	County
Notes:	Subject to censoring based on low sample numbers. It is available by
	race as total, white, black, or other.
Most recent release:	2008-2016
Data Source:	Virginia Department of Health Division of Health Statistics
Source Description:	Birth certificates with data analyzed by the Virginia Department of
	Health Division of Health Statistics.

### **15.Life Expectancy**

Measure Description:	Measure Definition:
Life expectancy of infants	Life expectancy at birth represents the average number of years that
born to an area	a group of infants would live if the group was to experience
	throughout life the age-specific death rates present in the year of
	birth (CDC). The methodology is outlined in the Sub-County
	Assessment of Life Expectancy (SCALE) methodology. This
	methodology is also outlined in a Talbot et al. 2018 paper about a
	generalizable approach out of NY state.
Collection Plan, including	TJHD has TJHD death certificates from the early 2000's through 2016.
update schedule:	However, as need accurate demographic counts for this
	methodology, can only do the analysis on years around the dicennial
	census. Years used are 2008-2012.
Geography:	Census Tract
Notes:	Due to data limitations, some areas are censored or combined with
	others to produce reliable estimates.
Most recent release:	2008-2012
Data Source:	Virginia Department of Health – Death Certificates
Source Description:	Death Certificates

# **Priority: Foster a Healthy and Connected Community**

#### 16. Free and Reduced Lunch

Measure Description: Percentage of students qualifying for free and reduced lunch.	Measure Definition: Counts and percentages of students qualifying for free lunch and those qualifying for reduced lunch.
Collection Plan, including update schedule:	Data comes out directly from the VDOE each fall. Data will be downloaded then and the previous year's data will be downloaded as well as needed. The VDOE puts marks for when datasets are updated, we should be aware of this and update as needed.
Geography:	County and School
Notes:	Community Eligible Provision data is also available

Most recent release:	2017-2018 School Year
Data Source:	Virginia Department of Education
Source Description:	Virginia Department of Education publishes free and reduced lunch
	eligibility, plus Community Eligibility Provision Reports, for the
	current school year in the fall of each year

#### 17. On-Time Graduation Rates

Measure Description: Four year graduation rate	Measure Definition: Students who entered the ninth grade for the first time together and successfully graduated four years later.
Collection Plan, including update schedule:	VDOE releases information for the cohort graduating in the school year ending that spring in the following fall.
Geography:	County and School
Notes:	Data is broken down race, economic disadvantage status, and a few other variables
Most recent release:	Class of 2018
Data Source:	Virginia Department of Education
Source Description:	Virginia Department of Education publishes annual state, division, and school-level cohort reports that detail outcomes for students who entered the ninth-grade for the first time together and were scheduled to graduate four years later.

# 18. Third Grade English Reading SOL Pass Rate

Measure Description: Third Grade English Reading SOL Pass Rate	Measure Definition: Percentage of students passing the third grade English Reading SOL exam.
Collection Plan, including update schedule:	VDOE publishes the data during the Fall of the following year; it is then available from their website.
Geography:	County and School
Notes:	Pass rate is the usual measure seen elsewhere; this could also include counts. This link provides the rationale for inclusion: <a href="http://explore.thrivingcities.com/indicators/15">http://explore.thrivingcities.com/indicators/15</a>
Most recent release:	2017-2018 School Year
Data Source:	Virginia Department of Education
Source Description:	Virginia Department of Education published Standards of Learning (SOL) pass and fail counts and rates by a race/ethnicity, grade, gender, economic disadvantaged status, English learners, and a few other factors such as disability. This is available through their website and can be downloaded per school. Counts and rates are censored according to their rules which are laid out on the site. The censoring and low student count for some intersections results in the majority of values being 0 or censored.

#### 19. Vehicles Available

Measure Description:	Measure Definition:
Vehicle Ownership	Vehicles Available is determined by household. We can look at this
	by household size and means of transportation to work.
Collection Plan, including	ACS data is released as 5-year estimates in December (1-year
update schedule:	supplements are available for areas with over 100,000 population
	which is only Albemarle county in our district)
Geography:	Census Tract
Notes:	Census Data, specifically ACS data, is used to create many of the
	other data sources utilized. It is the only data with smaller than
	county estimates; however these estimates have confidence
	intervals that should be taken into consideration.
	Looking at vehicle ownership by means of transportation to work can
	provide information on biking, walking, and taking public
	transportation to work instead of driving.
Most recent release:	2012-2016 5 year estimates
Data Source:	American Community Survey
Source Description:	Every year, the U.S. Census Bureau contacts over 3.5 million
	households across the country to participate in the American
	Community Survey (ACS). Participation is mandated by law because
	the ACS is part of the decennial census, replacing the "long form"
	that previously was sent to a percentage of households once every
	10 years. Topics covered include demographics, ancestry,
	employment status, disability, educational attainment, family, health
	insurance coverage, vehicles available, and more.

## 20. Department of Social Services Benefits Demographics

Measure Description:	Measure Definition:
DSS benefit demographic	Clients of SNAP, TANF, Medicaid and Famis, or any Social Services
	Benefit by locality and age group, gender, or race.
Collection Plan, including	VDH has two reports covering 2016 and 2017. Do not know when or
update schedule:	if next year's report will be available. Unlikely to get prior years data
	in same format.
Geography:	County
Notes:	The two reports had different age groups (one split up adults 18-64
	into more categories) so it was adjusted to fit the other report. 2017
	used calendar year 2017 and 2016 was state fiscal year. It is unclear
	why VDSS made this decision.
Most recent release:	Calendar year 2017
Data Source:	Virginia Department of Social Services
Source Description:	VDSS collects data on the beneficiaries of their programs. VDH has
	available two years of reports that include data such as
	demographics of clients.